

**Amendment and Response**

Applicant: Cory Watkins

Serial No.: 10/623,283

Filed: July 18, 2003

Docket No.: A126.111.102

Title: INSPECTION TOOL WITH PARTIAL FRAMING CAMERA

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**IN THE CLAIMS**

Please cancel claims 4 and 12.

Please amend claims 1, 5-8, 13-15, and 17-19 as follows:

1.(Currently Amended) An inspection system including at least a camera with the ability to selectively readout a number of rows, wherein the inspection system is configured to inspect semiconductor substrates.

2.(Original) The inspection system of claim 1, further comprising a controller that programs the camera to readout a specified number of rows.

3.(Original) The inspection system of claim 2, wherein the camera includes an imager having a first number of rows, and wherein the specified number of rows is less than the first number of rows.

4.(Cancelled)

5.(Currently Amended) The inspection system of claim 34, wherein the semiconductor substrates comprise a plurality of semiconductor die, and wherein the controller is configured to program the camera to readout the specified number of rows based on a size of the semiconductor die ~~or pattern~~.

6.(Currently Amended) The inspection system of claim 5, wherein the size of the semiconductor die ~~or pattern~~ is less than a field of view of the camera.

7.(Currently Amended) The inspection system of claim 5, wherein the size of the semiconductor die ~~or pattern~~ is greater than a field of view of the camera.

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8.(Currently Amended) An inspection device including at least a camera with the ability to selectively readout groups of pixels in one axis of an imager of the camera, wherein the inspection device is configured to inspect semiconductor substrates.

9.(Original) The inspection device of claim 8, further comprising a controller that programs the camera.

10.(Original) The inspection device of claim 9, wherein the controller programs the camera to readout a specified number of groups of pixels in one axis of the imager.

11.(Original) The inspection device of claim 10, wherein the imager has a first number of rows, each of the groups of pixels is a row of pixels, and the specified number of groups of pixels is less than the first number of rows.

12.(Cancelled)

13.(Currently Amended) The inspection device of claim 1042, wherein the semiconductor substrates comprise a plurality of semiconductor die, and wherein the controller is configured to program the camera to readout the specified number of groups of pixels based on a size of the semiconductor die ~~or pattern~~.

14.(Currently Amended) The inspection device of claim 13, wherein the size of the semiconductor die ~~or pattern~~ is less than a field of view of the camera.

15.(Currently Amended) The inspection device of claim 13, wherein the size of the semiconductor die ~~or pattern~~ is greater than a field of view of the camera.

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16.(Original) An automated method of inspecting a plurality of semiconductor die, the method comprising:

- providing a camera including an imager;
- capturing image frames of the plurality of semiconductor die with the imager, each captured frame including a first number of rows of pixels;
- reading out pixel data from the imager for each captured frame, the pixel data for each captured frame including a second number of rows of pixels that is less than the first number of rows of pixels; and
- identifying defects in the plurality of semiconductor die based on the pixel data read out from the imager.

17.(Currently Amended) The method of claim 16, and further comprising:

- programming the camera to read out the second number of rows of pixels based on a size of the semiconductor die ~~or pattern~~.

18.(Currently Amended) The method of claim 16, wherein a size of each of the semiconductor die ~~or pattern~~ is less than a field of view of the camera.

19.(Currently Amended) The method of claim 16, wherein a size of each of the semiconductor die ~~or pattern~~ is greater than a field of view of the camera.